

**MAY 26, 2011**

**THANK YOU HARMON KILLEBREW!  
READY FOR SOME CYLINDER SURFACE AREA AND  
VOLUME? I HOPE SO, BECAUSE THATS WHAT WE ARE  
LEARNING ABOUT TODAY.**

**TODAY'S AGENDA ~  
CORRECT CIRCLE WORKSHEET  
TALK ABOUT THE TEST  
CYLINDER NOTES**

**HOMEWORK:CYLINDER SURFACE AREA WORKSHEET**

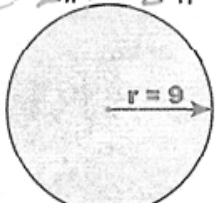
# Chapter 5 Preview/ Refresher

Area, Circumference from Radius, Diameter  
Version 1

Name: Key


Calculate the area and circumference of each circle. Use  $\pi=3.14$ .

$C = 2\pi r = 2 \cdot \pi \cdot 9 = 56.52$



$A = \pi r^2 = \pi \cdot 9^2 = 254.34$


$C = 2\pi r = 2\pi \cdot 1 = 6.28$



$A = \pi r^2 = \pi \cdot 1^2 = 3.14$

$C = 2\pi r = 2\pi \cdot 3 = 37.68$

$d = 6$



$A = \pi r^2 = \pi \cdot 3^2 = 28.26$


~~$C = 2\pi r = 2\pi \cdot 9 = 56.52$~~



~~$A = \pi r^2 = \pi \cdot 9^2 = 254.34$~~

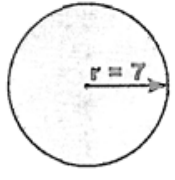
$C = 2\pi r = 2\pi \cdot 4 = 25.12$

$d = 8$



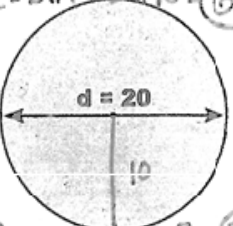
$A = \pi r^2 = \pi \cdot 4^2 = 50.24$

$C = 2\pi r = 2\pi \cdot 7 = 43.96$




$A = \pi r^2 = \pi \cdot 7^2 = 153.86$

$C = 2\pi r = 2\pi \cdot 10 = 62.8$



$A = \pi r^2 = \pi \cdot 10^2 = 314$

$C = 2\pi r = 2\pi \cdot 4 = 25.12$



$A = \pi r^2 = \pi \cdot 4^2 = 50.24$

~~$C = 2\pi r = 2\pi \cdot 3 = 37.68$~~



~~$A = \pi r^2 = \pi \cdot 3^2 = 28.26$~~

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$$A = \pi r^2$$

$$C = 2\pi r$$

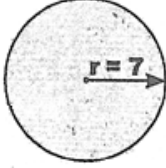
# Chapter 5 - Preview/Refresher

Calculate Circle Radius, Diameter, Circumference,  
Area 1  
Version 1

Name: \_\_\_\_\_


Calculate the radius, diameter, area and circumference Use  $\pi=3.14$ .

$R=7$   $D=2r=2 \cdot 7=14$




$C=2\pi r=2\pi \cdot 7=43.96$   
 $A=\pi r^2=\pi \cdot 7^2=153.86$

$R=1$   $D=2r=2 \cdot 1=2$




$C=2\pi r=2\pi \cdot 1=6.28$   
 $A=\pi r^2=\pi \cdot 1^2=3.14$

$R=2$   $D=2r=2 \cdot 2=4$



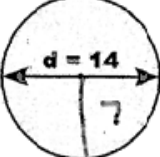
$C=2\pi r=2\pi \cdot 2=12.56$   
 $A=\pi r^2=\pi \cdot 2^2=12.56$

$R=3$   $D=2 \cdot 3=6$




$A=\pi r^2$   
 $28.26=\pi r^2$   
 $\frac{28.26}{\pi}=\frac{\pi r^2}{\pi}$   
 $a=\frac{28.26}{\pi}$   
 $\sqrt{9}=r$   
 $3=r$   
 $C=2\pi r=2\pi \cdot 3=18.84$   
 $A=28.26$

$R=7$   $D=14$




$C=2\pi r=2\pi \cdot 7=43.96$   
 $A=\pi r^2=\pi \cdot 7^2=153.86$

$R=2$   $D=4$




$C=2\pi r=2\pi \cdot 2=12.56$   
 $A=\pi r^2=\pi \cdot 2^2=12.56$

$R=4$   $D=8$



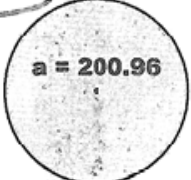
$C=2\pi r=2\pi \cdot 4=25.12$   
 $A=\pi r^2=\pi \cdot 4^2=50.24$

$R=6$   $D=12$



$C=37.68$   
 $A=113.04$   
 $C \div 2 \div \pi = r$   
 $37.68 \div 2 \div \pi = 6$

$R=8$   $D=8 \cdot 2=16$



$A=200.96$   $C=50.24$   
 $A \div \pi = 200.96 \div \pi = 64$   
 $\sqrt{64} = r = 8$

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$$A = \pi r^2$$

$$C = 2\pi r$$

## **TEST INFORMATION**

**#10 - EXTRA CREDIT (6 POINTS)**

## **TEST CORRECTIONS**

**AFTER SCHOOL SESSION TODAY**

**- I WILL HELP WITH CORRECTIONS.**

**BEFORE SCHOOL TOMORROW AT 7:10**

**- I WILL HELP WITH CORRECTIONS.**

**OR YOU CAN CORRECT ON YOUR OWN**

**WITH THE HELP OF SOMEONE ELSE WHO  
KNOWS HOW TO DO THE PROBLEMS.**

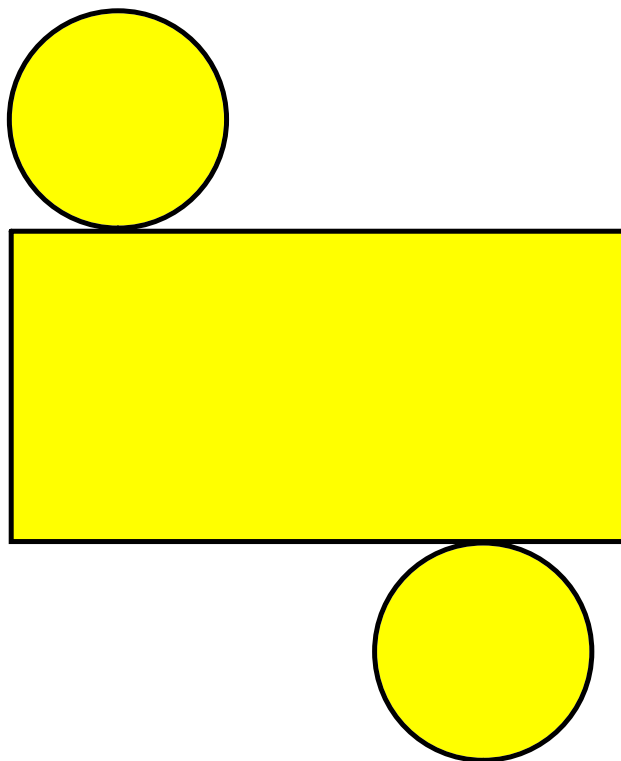
**CYLINDERS CAN BE MADE WITH 3 PIECES OF PAPER:**

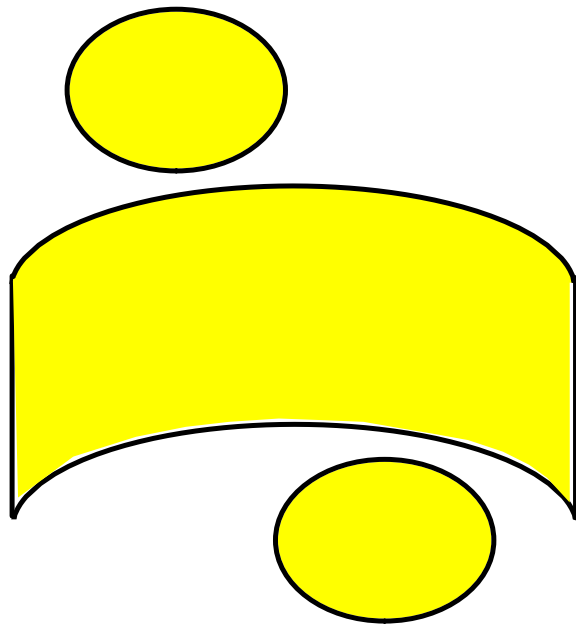
**CIRCLE - TOP**

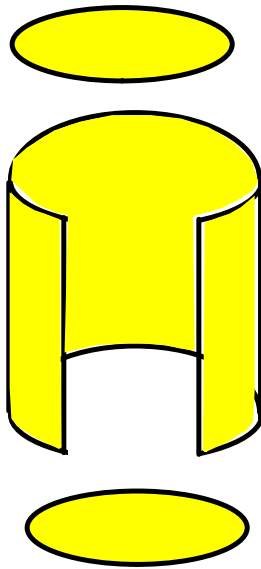
**CIRCLE - BOTTOM**

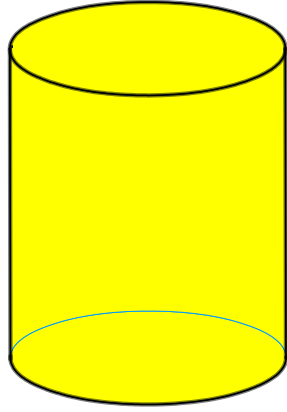
**RECTANGLE - TUBE**

**WATCH THE CYLINDER BE MADE...**





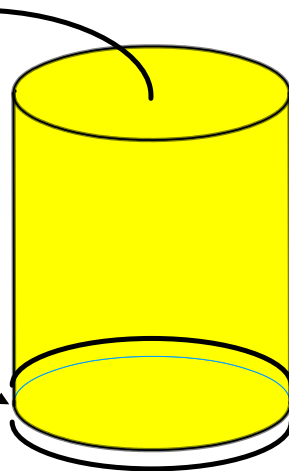






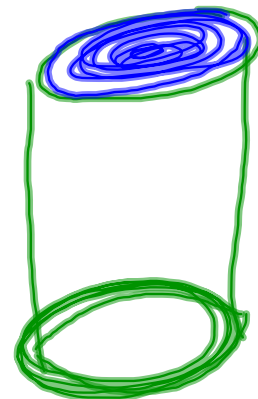
To find the Surface Area of a Cylinder,  
use this formula

B = area of base  
h = height  
p = perimeter  
SA = surface area



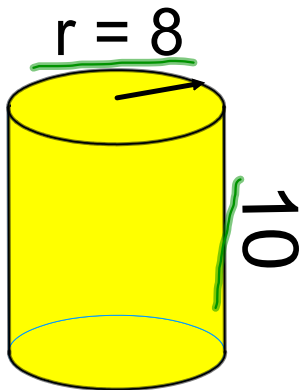
$$SA = \underline{p} \underline{h} + \underline{2B}$$

$$A = \underline{2\pi r} \cdot h + 2\pi r^2$$



So let's practice...

Find the surface area of these cylinders.

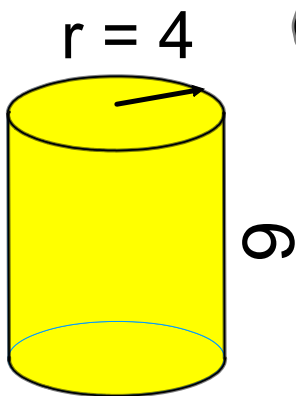


$$A = 2\pi r h + 2\pi r^2$$

$$A = 2 \cdot \pi \cdot 8 \cdot 10 + 2\pi \cdot 8^2$$

$$A = 904.32$$

$$(\pi \text{ button} = 904.7786842)$$

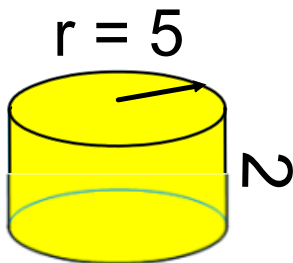


$$A = 2\pi r h + 2\pi r^2$$

$$A = 2\pi \cdot 4 \cdot 6 + 2\pi \cdot 4^2$$

$$A = 251.20$$

$$(251.327412)$$



$$A = 2\pi r h + 2\pi r^2$$

$$A = 2\pi \cdot 5 \cdot 2 + 2\pi \cdot 5^2$$

$$A = 219.8$$

Homework:  
Cylinder Surface Area worksheet